Isys i/O[™] WiFi & Handheld Remotes overview

"Complete control in the palm of your hand!"

It's been said many times before but never been truer. Today's WiFi touchpanels and handheld remotes from Crestron represent the state-of-the-art in compact wireless control employing bright color touchpanels, alphanumeric LCD displays, electroluminescent backlighting, and a variety of tactile controls. Ergonomics are optimized to provide greater comfort and more intuitive operation, transforming the handheld device into a natural extension of the human body.

With 35+ years of control system know how, it's a given that Crestron handhelds and WiFi touchpanels are leaps and bounds beyond the common "universal learning remote". Crestron's control technology and software tools afford infinite programmability to suit any application, going beyond conventional home theater and AV system control, extending domain over lighting, climate, security, and more.

The much heralded **TPMC-8X Isys i/O WiFi Touchpanel** matrices wireless touchpanel control with mobile computing in an alluring and ergonomic design that's perfect for home or office. The TPMC-8X actually runs on a Windows® XP

Embedded platform, enabling Web browsing, streaming media, and Voice-over-IP all within the Crestron touchpanel environment! The smaller **TPMC-4X Isys i/O Handheld WiFi Touchpanel** provides true 2-way touchpanel control complete with wireless video in a sleek, handheld form factor.

The **MT-1000C MiniTouch** employs a compact color touchscreen in a smart, stylish handheld package offering a choice of 1-way RF or IR communications. The ergonomic **ML-600 MiniLCD** features an intuitive button layout specialized for AV/Home Theater control and display of custom menus containing input sources, TV channels, radio stations, or even lighting and climate control functions.

Leave it to Crestron to create the **WPR-48 Waterproof Handheld Remote.** The "remote on a rope" is completely immersible, providing control where no remote has gone before. And, Crestron's offering is rounded out by the straightforward **CNRFHT RF Handheld Remote,** employing a variable layout of up to 30 multi-colored pushbuttons and engravable faceplate.





Isys i/O[™] WiFi & Handheld Remotes cross reference

| | lsys i/O WiFi | | MiniTouch | AiniTouch Handhe | | neld Remotes | |
|--|--|--|--|--------------------------------|-------------------------------------|--|--|
| | TPMC-8X 8.4" WiFi Touchpanel | TPMC-4X Handheld WiFi Touchpanel | MT-1000C MiniTouch | ML-600 MiniLCD | WPR-48 Waterproof Remote | CNRFHT RF Handheld Remote | |
| Display | | | | | | | |
| Display Type | TFT Active Matrix | TFT Active Matrix Color Touchscreen | TFT Active Matrix Color Touchscreen | Backlit LCD | | | |
| Display Size | Color Touchscreen 8.4" | 3.5" | 3.8" | 2.1" H x 1.4"W | | | |
| | 0.11 | 0.0 | 0.0 | 5 characters per 10 labels | | | |
| Resolution | 800 x 600 SVGA | 240 x 320 QVGA (portrait) | 320 x 240 QVGA | +4char. each for group/page | | | |
| Color Depth | 18-bit 262k Colors | 16-bit 64k Colors | 16-bit 64k Colors | Monochrome | | | |
| Buttons & Controls | | | | | | | |
| Programmable Hard Buttons | 2 | 9 | 11 | 32 | 9 Rocker Type Up to 48 functions | CNRFHT-15: Up to 15 CNRFHT-30: Up to 30 | |
| Softkey Pushbuttons | 4 | 4 | | 10 | 00 10 40 10101015 | GNAI 11-30. OP to 30 | |
| Thumb Pad | 5-Way | 5-Way | 5-Way | 5-Way | | | |
| 3-Way Toggle Wheel | | • | | | | | |
| Biometric Fingerprint Scanner | • | | | | | | |
| Button Backlighting | | • | ٠ | • | Backlit Label Inlay | | |
| Touchpanel Graphics | | | | | | | |
| Color Depth | 16-bit 64k | 16-bit 64k | 16-bit 64k | | | | |
| Synapse Image Rendering | • | • | • | | | | |
| Multimode Objects | • | • | | | | | |
| True Feedback, Dynamic Text, & Animation | • | • | | | | | |
| Dynamic Graphics & PNG Translucency | • | • | | | | | |
| Dynamic Menu Objects | • | | | | | | |
| Memory | | | | | | | |
| Ram | 512MB | 64MB | 16MB | | | | |
| Flash | 1GB | 32MB | | | | | |
| Memory Card Slot | Up to 4GB | | | | | | |
| Maximum Project Size | 190MB | 12MB | 16MB | | | | |
| Embedded PC | | | | | | | |
| Operating System | Windows XP Embedded | Windows CE .NET 4.2 | | | | | |
| Neb Browser, Media Player, Remote Desktop, /oIP, NetMeeting, Yahoo! Widgets, MS Office Document Viewers, & Adobe Acrobat Reader ¹ | • | | | | | | |
| Keyboard/Mouse | USB, Bluetooth, onscreen | onscreen | | | | | |
| Video | | | | | | | |
| Streaming via Media Player | • | | | | | | |
| Streaming MJPEG | • | • | | | | | |
| Audio | | | | | | | |
| Integrated Speakers & Microphone | • | | | | | | |
| WAV Sound File Audio Feedback | • | | • | | | | |
| Wireless | | | | | | | |
| 2-Way Wi-Fi RF via 3rd-party 802.11x WAP | 802.11a/b/g | 802.11b | | | | | |
| 1-Way RF 418 MHz via CNRFGWA-418 or MC2W | | | • | • | • | | |
| 1-Way RF 434 MHz via CNRFGWA or MC2W | | | | | • | • | |
| 1-Way IR 38 kHz RC5 via C2N-IRGW or CNXRMIRD | | | • | • | • | | |
| 1-Way IR 455 kHz via CN-TVAV | | | | | • | | |
| Batteries | | | | | | | |
| Lithium-Polymer Rechargable | | | | | | | |
| Lithium-Ion Rechargable | • | • | • | | • | | |
| External Battery Option | • | | | | | | |
| Disposable | | | | AAA (x4) | | 9 Volt (x1) | |
| Docking Station | | | | | | | |
| Desktop Docking Station | • ² | • | • | | • | | |
| | | | | | | | |

¹ See product spec for a complete list of embedded applications

² Accessory sold separately

This chart intended for summary comparison only; see each product specification for complete information.

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Isys i/O WiFi Touchpanels

Isys i/O™ 8.4" WiFi Touchpanel TPMC-8X

Crestron's Isys i/O TPMC-8X is a compact, stylish Wi-Fi touchpanel featuring the Windows® XP Embedded OS to deliver a 2-way wireless control solution with blazingly fast performance and native capabilities for browsing the Internet, streaming multimedia, and much more. A brilliant 8.4" active-matrix SVGA display and 16-bit color depth combine to produce stunning 3D graphics using new dynamic menu objects, dynamic graphics, animations, multimode objects, PNG translucency, and exclusive Synapse™ image rendering – all with astonishing speed.

Advanced Ergonomics—Incredibly thin and compact, the TPMC-8X is brilliantly designed to provide a powerful mobile control solution that's easy to hold and intuitive to use. Its magnesium alloy enclosure presents a sleek, modern appearance that is both rugged and lightweight.

Tactile Controls—An integrated 5-way thumbpad and up/down arrow buttons add quick-access and tactile response for controlling functions ranging from simple volume adjustment and channel selection to on-screen menu navigation or even pan/tilt camera control. Four additional "softkeys" are positioned below the touchscreen, programmable for context-sensitive menu functions. A stylus is even included for use with the on-screen keyboard, conveniently stowed in its own storage slot.

Bluetooth[®] **Technology**—Built-in Bluetooth enables the use of a wireless mouse, keyboard, and other devices. A USB 2.0 port is also provided for connecting wired devices.

Biometric Scanner—The built-in fingerprint scanner unleashes a whole new level of convenience and security, allowing individual users to be identified instantly and logged on automatically. With just the touch of a fingertip, each user can be presented with a unique graphical interface with its own set of preferences, access privileges, and even its own look through the use of touchpanel "skins".

Wi-Fi Wireless—Integrated 802.11a/b/g Wi-Fi technology with WEP encryption delivers secure, high-speed 2-way wireless performance across wireless LAN's, affording mobile freedom and seamless communications with Crestron control systems, computers, digital media servers, and other IP-based devices.

Embedded PC—The power of Isys i/O[™] is in its embedded PC engine, combining rock solid touchpanel performance with built-in Windows Media[®] Player and RealPlayer[®], Internet Explorer, Adobe[®] Acrobat[®] Reader, and Microsoft Word, Excel, and PowerPoint[®] document viewers. While simultaneously controlling your home theater or boardroom, the TPMC-8X provides everything needed for enjoying online



music and movies, and viewing Web pages and other documents without necessitating a separate computer.

The TPMC-8X also lets you access data and run applications on other computers via Remote Desktop, and use NetMeeting[®] and Skype[™] for interactive conferencing and voice-over-IP (VoIP) communications – right on the touchpanel. Plus, support for Yahoo! Widgets affords an easy solution for integrating everything from calendars and clocks to stock tickers, weather forecasts, news feeds, and thousands of other fun and useful utilities.

Built on the Windows XP Embedded operating system, the TPMC-8X delivers a powerful and secure platform for touchpanel control with integrated PC capabilities. Programmatic control erases the lines between control system and PC, allowing programmers to customize each application's behavior within the touchpanel environment to create a truly powerful and user-friendly interface.

Wireless Video—For entertainment or surveillance, the TPMC-8X makes it easy to view security cameras, movies, and other video sources right on the touchscreen. In addition to the wide range of formats supported by its embedded media player applications, the TPMC-8X also features native support for viewing streaming video from Axis Network Video cameras and servers.

Audio Features—Its built-in microphones, stereo speakers, and headphone output support clear voice communications for VoIP and conferencing applications, or just listening to online music and videos. Customized WAV files can be loaded on the touchpanel to add dimension to the

> continued



Isys i/O WiFi Touchpanels

TPMC-8X Isys i/O™ 8.4" WiFi Touchpanel (continued)

touchscreen graphics with personalized sounds, button feedback, and voice prompts.

Li-Ion Rechargeable Batteries—A field-replaceable Lithium Ion battery pack onboard the TPMC-8X provides fast-charging, long-lasting wireless operation without the "memory" issues typical of other rechargeable batteries. An external "booster" battery pack is also available, providing up to 20 hours of typical use between charges. The optional external battery pack clips neatly to the rear of the touchpanel without tools, adding 0.75 inch depth and non-slip rubber feet resulting in a fixed tilt angle of 7 degrees.

Docking Station Options—Optional desktop or wall mount docking stations afford a choice of convenient charging solutions, adding 10/100 Ethernet for direct connection to a wired LAN, plus two USB ports for mouse and keyboard. The desktop dock allows the touchpanel to be operated upright at a 37 degree angle, while the wall mount model provides a secure, flush look.

- Stylish and compact ergonomic design
- ▶ 8.4" active matrix display 800 x 600 resolution
- ▶ 16-bit Isys i/0[™] graphics Synapse[™] image rendering algorithm
- ▶ 802.11a/b/g Wi-Fi 2-way wireless communications
- Windows XP[®] Embedded operating system
- Onboard PC applications for Web browsing, streaming media, conferencing, VoIP, and remote desktop
- Wireless video from network cameras and servers
- Built-in microphone and stereo speakers
- ▶ 5-way thumbpad and 4 "Softkey" buttons
- Includes stylus with onboard storage slot
- Built-in biometric fingerprint scanner
- Built-in Bluetooth[®] technology
- Internal Li-Ion battery pack included
- External "booster" battery pack available
- Optional desktop and wall mount docking stations

SPECIFICATIONS

Touchscreen Display

Display Type: TFT Active matrix color LCD Size: 8.4 inch (21.3 cm) diagonal Aspect Ratio: 4:3 SVGA Resolution: 800 x 600 pixels Brightness: 200 nits (cd/m²) Contrast: 500:1 Color Depth: 18-bit, 262k colors Illumination: Backlit fluorescent Viewing Angle: ±65° horizontal, +65°/-45° vertical Touchscreen: Resistive membrane

Buttons & Controls

Softkeys: (4) programmable "softkey" buttons below touchscreen **Thumbpad:** (1) programmable 5-way thumbpad (4-way navigation plus center "ENTER" button)

Arrows: (2) programmable up/down pushbuttons Power: (1) pushbutton, initiates "Power On" and "Power Down" Biometric Scanner: Identifies user by fingerprint Battery: (1) Recessed slide switch, shuts off battery for longterm storage

LED Indicators

Power: (1) Green LED, indicates touchpanel power status **Battery:** (1) Green/yellow dual-color LED, indicates battery condition and charging status

WiFi: (1) Green LED, indicates wireless network connection status

Memory

DDR SDRAM: 512 MB Flash: 1 GB Compact Flash: Accepts up to 4GB Type II CF+ (not included) Maximum Project Size: 190 MB

Operating System

Microsoft® Windows® XP Embedded

Graphic Engine

lsys i/O engine, 16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm; multi-mode objects; dynamic menu objects; dynamic graphics; PNG translucency; 24 fps animation; transition effects

Embedded PC Applications¹

Microsoft Internet Explorer w/Macromedia® Flash® plug-in, Windows Media® Player, RealPlayer®, Axis® Media Control, Crestron MediaMarker™, Remote Desktop, NetMeeting®, Skype™, Java™ Runtime, DirectX®, Yahoo! Widgets, Adobe® Acrobat® Reader, and viewers for MS Word, Excel, and PowerPoint®

Wireless¹

RF Transceiver: IEEE 802.11a/b/g Wi-Fi, 5 or 2.4 GHz 2-way RF, static IP or dynamic IP via DHCP, 64 and 128-bit WEP encryption, requires third-party 802.11a/b/g wireless access point and Ethernetenabled Crestron 2-Series control system

Range: 30 feet (10m) @54Mbps; range and speed vary based upon environmental conditions

Bluetooth: Bluetooth® V1.2 Class 1 built in

Video

Streaming/File Formats: MPEG4 & MJPEG via Axis Media Control plus all formats supported by the embedded media player applications¹



Isys i/O WiFi Touchpanels

Isys i/O™ 8.4" WiFi Touchpanel TPMC-8X

Audio

Hardware Features: Dual onboard microphones, built-in stereo speakers, stereo headphone output

Streaming/File Formats: As supported by the embedded media player applications

Audio Feedback (WAV): 8 & 16 bit PCM, mono & stereo, 8 – 44.1 kHz sampling rates

Amplification: Stereo, 1.1 Watts per channel

Connectors

HEADPHONES: (1) 3.5 mm TRS mini phone jack Stereo headphone output, 12mW per channel Minimum Impedance: 32 ohms

USB: (1) USB Type A female USB 2.0 port for keyboard, mouse, and computer console³

MEMORY CARD: (1) Type II CF+ Card slot¹

12V 3.5A: (1) DC power jack (power supply included)

BATTERY: (1) Slide switch inside battery compartment Turns battery off for long-term storage or shipment

Battery

Internal Battery: Lithium Ion, 7.4 Volt, 2000 mAh Crestron model TPMC-8X-BTP included Usage per Charge: ~1.5 hours continuous, 9+ hours under normal use with standby/powerdown activated² Charging Time: ~2 hours (~2.5 to 3 hours when in use)

Power Requirements

Touchpanel: 42 Watts (3.5 Amps) @ 12 Volts DC Universal Power Supply/Charger (included): 100~240V AC 50/60Hz

Environmental

Operating Temperature: 32° to 104°F (0° to 40°C) **Storage Temperature:** 14° to 140°F (-10° to 60°C) **Humidity:** 10% to 90% RH (non-condensing)

Enclosure

Construction: Magnesium alloy case with plastic buttons, stylus storage slot (stylus included), integral docking station port

Dimensions

Height: 8.21 in (20.85 cm) Width: 9.69 in (24.61 cm) Depth: 0.92 in (2.32 cm)

Weight

1.98 lbs (0.90 kg)

¹See Website or contact Crestron for a current list of compatible devices and embedded applications. To ensure reliable performance, new device drivers and applications are available only from Crestron through firmware updates.

²External battery pack allows ~3.5 hours continuous, 20+ hours under normal use.

TPMC-8X shown with optional docking station



AVAILABLE ACCESSORIES

 TPMC-8X-DS Desktop Docking Station/Charger TPMC-8X-DSW Wall Mount Docking Station/Charger TPMC-8X-BTP Internal Battery Pack TPMC-8X-BTPE External Battery Pack



➤ Isys i/O WiFi Touchpanels

TPMC-4X Isys i/O[™] Handheld WiFi Touchpanel



The TPMC-4X Handheld WiFi Touchpanel puts a highperformance 2-way wireless video touchpanel in a sleek, stylish handheld package, delivering a whole new level of control in the palm of your hand. Featuring Wi-Fi wireless communications, the TPMC-4X lends itself to a host of applications throughout any connected home, office, or university campus.

Handheld Touchpanel Control—Far more than a mere universal remote, the TPMC-4X is ingeniously designed to provide a powerful wireless control solution that's easy to hold and intuitive to use. True Crestron touchpanel versatility is afforded through a 3.5" activematrix color touchscreen display, producing stunning 16-bit graphics with 3D effects, high-res images, dynamic graphics and text, PNG translucency and animation. A stylus is even included for use with the on-screen keyboard, conveniently stowed in its own storage slot.

Wi-Fi Wireless—Integrated 802.11b Wi-Fi technology delivers secure, high-speed 2-way wireless performance, communicating with Crestron control systems, computers, and media servers via a wireless Ethernet access point. Fully bidirectional behavior means the TPMC-4X is perfect for searching through tracks and titles on your music server complete with the dynamic display of cover art graphics. Of course, true-feedback is afforded for every connected device be it audio, video, satellite radio, lighting, security, or climate control.

Wireless Video—Viewing security cameras and other video sources is possible right on the touchscreen. The TPMC-4X includes built-in support for wireless streaming video from a variety of 3rd-party Web cameras and servers using the motion-JPEG format.

Backlit Hard Buttons—To complement its touchpanel with tactile pushbutton control, the TPMC-4X includes a 5-way thumbpad controller, side-mounted toggle wheel, and 13 additional pushbuttons. Every button is fully programmable to support quick access to functions ranging from simple volume adjustment and channel selection to on-screen menu navigation or even pan/tilt camera control. Adjustable button backlighting provides a striking appearance while facilitating operation in a darkened home theater or boardroom.

Li-Ion Rechargeable Batteries—A fast-charging Lithium Ion battery pack provides long-lasting wireless operation without the "memory" issues typical of other rechargeable batteries. Adjustable standby helps preserve battery life, and the included docking station provides charging convenience with an elegant appearance.

- Stylish and ergonomic handheld design
- ▶ 3.5" active matrix touchscreen display 240 x 320 resolution
- ▶ 16-bit Isys i/0[™] graphics Synapse[™] image rendering algorithm
- Microsoft® Windows® CE .NET operating system
- ▶ 802.11b Wi-Fi 2-way wireless communications
- Motion-JPEG wireless video support
- Backlit hard buttons, thumbpad, and toggle wheel
- Includes stylus with onboard storage slot
- Includes docking station and Li-Ion battery pack

SPECIFICATIONS

Touchscreen Display

Display Type: Transflective TFT active matrix color LCD Size: 3.5 inch (8.89 cm) diagonal Aspect Ratio: 3:4 QVGA (portrait orientation) Resolution: 240 x 320 pixels Brightness: 100 nits (cd/m²) Contrast: 80:1 typical, 55:1 minimum Color Depth: 16-bit, 64k colors Response Time: 15mS Viewing Angle: ±60° horizontal, ±60° vertical Touchscreen: Resistive membrane

Buttons & Controls

Softkeys: (4) programmable "softkey" buttons below touchscreen Thumbpad: (1) programmable 5-way thumbpad (4-way navigation plus center "OK" button) Functions: (8) programmable pushbuttons labeled for volume, mute, channel, return, and transport controls Home: (1) programmable side button On/Off: (1) recessed slide switch, turns unit on or off Reset: (1) recessed miniature button, reboots the touchpanel



Isys i/O WiFi Touchpanels

Isys i/O™ Handheld WiFi Touchpanel **TPMC-4X**

Backlight: (1) side button, manually turns backlight on/off or enters standby when held

Toggle Wheel: (1) programmable 3-way toggle wheel (up/down and center-press)

LED Indicators

(1) Blue LED, indicates battery is charged

Processor

Samsung 203MHz Processor

Memory

SDRAM: 64 MB Flash: 32 MB

Maximum Project Size: 12 MB

Operating System

Microsoft® Windows® CE .NET 4.2

Graphic Engine

16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm; PNG translucency; multi-mode objects; animations; dynamic graphics

Wireless

RF Transceiver: IEEE 802.11b Wi-Fi, 2.4 GHz 2-way RF, static IP or dynamic IP via DHCP, 64 and 128-bit WEP encryption; requires a dedicated 802.11b wireless access point and Ethernet-enabled Crestron 2-Series control system

Range: 30 feet (10m) @11Mbps, range and speed vary based upon environmental conditions, roaming not supported

Video

Streaming Format: MJPEG

Connectors

USB: (1) Mini Type B female USB 1.1 computer console port, cable included

Battery

Battery Type: Lithium Ion, 3.6 Volt, 1300 mAh (included) Usage per Charge: 3 hours continuous at full brightness Charging Time: 1 hour (8 hours when in use)

Power Requirements

TPMC-4X-DS Docking Station/Charger (included): 0.6 Amps @ 5 Volts DC

Power Supply (included): 0.3 Amps @ 100-240 Volts AC, 60Hz

Environmental

Temperature: 30° to 113°F (-5° to 45°C) Humidity: 10% to 90% RH (non-condensing)

Enclosure

Construction: High impact injection-molded case, silver; stylus storage slot (stylus included); integral docking station port

Dimensions

Height: 1.17 in (2.96 cm) Width: 3.08 in (7.81 cm) Depth: 7.39 in (18.76 cm)

Weight

0.46 lbs (0.21 kg)

INTERNATIONAL VERSION (230 VAC)

TPMCI-4X

All the features and specifications of the TPMC-4X except:

Power Requirements

TPMCI-4X-DS Docking Station/Charger (included): 0.6 Amps @ 5 Volts DC

Power Supply (included): 0.3 Amps @ 100-240 Volts AC, 50Hz

INCLUDED ACCESSORIES

TPMC(I)-4X-DS Docking Station/Charger



Handheld Remotes

MT-1000C MiniTouch 1000 Handheld Wireless Touchpanel



wifi & handheld remotes

The MT-1000C MiniTouch is a compact wireless touchpanel combining an eye-catching color touchscreen with a streamlined array of backlit hard buttons in one sleek, stylish handheld package. Its lightweight, ergonomic design affords comfortable and intuitive handheld or tabletop use with a perfect combination of tactile pushbutton control and touchpanel versatility. Stunning 16-bit color graphics and WAV file audio feedback make the MiniTouch 1000 both highly functional and fun to use for a host of AV control and automation applications.

Color Touchpanel—Isys[®] graphics and a brilliant 3.8" active matrix display combine to deliver much of the performance of Crestron's larger touchpanels in an incredibly portable size. Like all Crestron touchpanels, the MT-1000C is fully programmable using Crestron's VisionTools[®] Pro-e GUI design software, supporting 64K colors and Synapse[™] image rendering for crisp, sharp anti-aliased objects and text, high-res images, and 3D effects.

Backlit "Hard" Buttons—The MT-1000C also includes 16 tactile pushbuttons designated for quick access to the most commonly used audio and video control functions. The 5-way thumbpad is optimized for easy onscreen menu navigation, and all buttons include backlighting to facilitate operation in a darkened home theater or boardroom.

Audio Feedback—Providing an additional dimension to the control experience, the MT-1000C can be loaded with fully-customizable WAV files to provide audible feedback, button clicks, and personalized voice prompts.

RF and IR Wireless—Crestron's proven RF wireless technology affords an operational range of up to 100 feet with complete freedom of movement. Long-range 418 MHz 1-way RF communication enables compatibility with any Crestron control system via the CNRFGWA-418 gateway (sold separately). The MT-1000C is also ideal for use with Crestron's MC2W Integrated Wireless Control System. IR communication is facilitated using a C2N-IRGW IR Gateway or CNXRMIRD IR Receiver (each sold separately) along with a compatible control system or room solution box.

Li-Ion Rechargeable Batteries—A fast-charging Lithium Ion battery pack provides long-lasting wireless operation without the "memory" issues typical of other rechargeable batteries. Adjustable auto-shutoff preserves the battery for up to a week without recharging. The included docking station simplifies recharging while simultaneously providing operating power when the battery is low.

Pick-up Sensor—An integral movement sensor can be set to automatically wake the touchpanel and turn on the backlight whenever the unit is picked up, readying the complete unit for use without having to wait after touching the touchscreen or buttons.

- Stylish and ergonomic handheld design
- 3.8" active-matrix color touchscreen
- ▶ 320 x 240 resolution 16-Bit lsys[®] graphics
- ▶ Synapse[™] Image Rendering Algorithm
- Backlit pushbuttons and 5-way thumbpad
- WAV file audio feedback
- Auto-shutoff and pick-up sensor
- 1-way RF or IR wireless communication
- Programmable using Crestron VTPro-e software
- Includes docking station and Li-Ion battery pack

SPECIFICATIONS

Touchscreen Display

Display Type: Transflective TFT active matrix color LCD Display Type: TFT active matrix color LCD Size: 3.8 inch (9.65 cm) diagonal Aspect Ratio: 4:3 QVGA Resolution: 320 x 240 pixels Color Depth: 16-bit, 64k colors Illumination: Backlit fluorescent with movement sensor Touchscreen: Resistive membrane

Buttons

VOL, CH: (2) programmable up/down toggle function buttons MUTE, INFO, MENU, EXIT: (4) programmable function buttons Thumbpad: 5-way programmable for onscreen menu navigation (Up/Down, Left/Right, and Select)

— —: (2) buttons, step forward or backward through touchpanel page list, or programmable



Handheld Remotes

MiniTouch 1000 Handheld Wireless Touchpanel MT-1000C

Construction: High impact black/silver injection-molded case

(See individual product specifications for complete information)

Enclosure

Dimensions

MT-1000C-DS

MT-1000-BTP

Battery Pack

Docking Station/Charger

Weight

Height: 1.23 in (3.12 cm)

Width: 7.15 in (18.16 cm)

Depth: 4.74 in (12.04 cm)

10.4 oz (0.3 kg) including battery pack

INCLUDED ACCESSORIES

MAIN: (1) button, reverts to first touchpanel page, or programmable All buttons backlit

Wireless

RF Transmitter: 418 MHz 1-way RF Range: 50 - 100 feet (typical) CNRFGWA-418 or MC2W RF Gateway required (maximum 15 touchpanels per gateway)

IR Transmitter: 38 kHz IR

Format: RC5 Range: 15 to 25 feet (typical) C2N-IRGW IR Gateway or CNXRMIRD IR Receiver required

Processor

206MHz RISC Microprocessor

Memory

16 MB user RAM

Graphic Engine

16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm

Audio

WAV File: 8 & 16 bit PCM, mono & stereo, 8 - 22 kHz sampling rates

Connectors

Programming Port: (1) USB port (programming cable included) Connects to PC for loading screen files

Battery

Model/Type: MT-1000C-BTP Lithium Ion rechargeable battery pack (included)

Usage per Charge: Approximately 4 hours with display and backlight on full continuous; up to 7 days inactive

Power Requirements

Docking Station/Charger (MT-1000C-DS included): 2 Amps @ 5 Volts DC

Power Supply (included): 0.3 Amps @ 100-250 Volts AC 50/60Hz

Environmental

Temperature: 41° to 104°F (5° to 40°C) Humidity: 10% to 90% RH (non-condensing)

AVAILABLE ACCESSORIES

CNRFGWA-418 1-way RF Gateway

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C2N-IRGW-1G • IR Gateway, Wall Mount C2N-IRGW-F IR Gateway, Flush Mount CNXRMIRD IR Receiver

MC2W Integrated Wireless Control System

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Handheld Remotes

ML-600 MiniLCD Handheld Remote



The ML-600 MiniLCD is a handheld wireless remote that features a customizable LCD display, a 5-way thumb pad controller, and an intuitive array of pushbuttons designated for a variety of common AV functions. But Crestron designed the ML-600 to go beyond conventional home theater and AV system control, extending domain over lighting, climate, security, and more as part of a complete Crestron system. Its compact size and ergonomic design offer easy onehanded operation.

Clear Display—The large, easy-to-read LCD screen supports the creation of numerous pages of custom functions and favorites, all executable using a set of ten corresponding "soft" buttons. Three additional buttons are included for fast menu page selection. Any of the ten functions, or "Groups" provided on the Main menu page can be assigned to access up to four additional Option pages. Additionally, up to 5 pages of Favorites can be configured.

Adjustable LCD contrast and switchable electroluminescent blue backlighting ensure optimal visibility in a range of lighting environments. While drawing very little power, the menu commands remain active and ready on the screen at all times. When battery levels are low, a "Low Battery" message is displayed when pressing the Power button allowing for timely replacement of batteries. Non-volatile memory ensures that programming is retained when batteries are low.

Tactile Response—The buttons on the ML-600 feature a glossy, domed, firm rubber treatment with a sleek

translucent appearance and secure tactile response. Backlighting of every button facilitates control in a darkened room. An optimized button layout enables easy access to every system function, with 27 programmable buttons labeled for power, volume, mute, channel selection, transport control, and numeric entry.

The ML-600's intuitive 5-way thumb pad with discrete center select button affords effortless cursor control for navigation of onscreen menus and other functions.

RF and IR Wireless—Crestron's proven RF wireless technology affords an operational range of up to 200 feet with complete freedom of movement. Long-range 418 MHz 1-way RF communication enables compatibility with any Crestron control system via the CNRFGWA-418 gateway (sold separately). The ML-600 is also ideal for use with Crestron's MC2W Integrated Wireless Control System. IR communication is facilitated using the C2N-IRGW IR Gateway or CNXRMIRD IR Receiver (each sold separately) along with a compatible control system or room solution box.

- Ergonomic handheld design
- Large programmable LCD screen flanked by 10 "soft" buttons
- 3 LCD menu navigation buttons
- > 27 programmable function buttons
- > 2 programmable power buttons
- ▶ 5-way thumb pad for OSM navigation
- EL backlighting of LCD screen and buttons
- ▶ 1-way RF or IR wireless communication
- Operates on 4 AAA alkaline batteries

SPECIFICATIONS

LCD Screen

Size: 2.1 x 1.4 in (5.33 x 3.56 cm)

Buttons and Controls

ON/OFF: (2) programmable power function buttons "Soft" Buttons: (10) buttons actuate LCD menu commands PAGE, FAV, MAIN: (3) buttons select LCD menu pages Device Control: (27) programmable function buttons labeled for volume, mute, channel, onscreen menus, transport control, and numeric entry

Thumb Pad: (1) 5-way thumb pad (4-way cursor control plus discrete center select pushbutton) for onscreen menu navigation LIGHT: (1) button on right side turns backlighting on/off

Backlight

Switchable electroluminescent backlighting for LCD screen and pushbuttons, automatic shutoff after 15 seconds

CRESTRON.

Handheld Remotes

MiniLCD Handheld Remote ML-600

Wireless

RF Transmitter: 418 MHz 1-way RF Bandwidth: ±100KHz Range: Up to 200 feet (typical) CNRFGWA-418 or MC2W RF Gateway required

IR Transmitter: 38 kHz IR

Format: RC5 Range: 15 to 25 feet (typical) C2N-IRGW IR Gateway or CNXRMIRD IR Receiver required

Connectors

1 (1) 3.5mm TRS mini phone jack female RS-232 serial connection to PC for loading program Programming cable included, 3.5 mm TRS mini phone plug to DB9 female

Battery

Four (4) disposable 1.5V AAA alkaline batteries (included)

Enclosure

High impact rubberized plastic

Environmental

Temperature: 50° to 113° F (10° to 45° C) Humidity: 10% to 90% RH (non condensing)

Dimensions

Height: 9.05 in (22.99 cm) Width: 3.07 in (7.80 cm) Depth: 1.40 in (3.56 cm)

Weight

8 oz (0.23 kg) with batteries

AVAILABLE ACCESSORIES

CNRFGWA-418 1-way RF Gateway

MC2W Integrated Wireless

Control System

- C2N-IRGW-1G
 IR Gateway, Wall Mount
- C2N-IRGW-F
 IR Gateway, Flush Mount

CNXRMIRD IR Receiver



Handheld Remotes

WPR-48 Waterproof Handheld Remote



The WPR-48 is the industry's first waterproof wireless remote. Perfect for controlling music, television, lighting and more, Crestron's "remote on a rope" is safe to use in the shower or hot tub. The ruggedized, immersible case is easy to grip and won't slip from moist hands.

Configurable for 9, 18, 27, or 48 functions, the WPR-48 features a total of nine multi-function pushbuttons that can be toggled left or right, or pressed in the center for up to 3 functions per button. Large customizable labels with electroluminescent backlighting facilitate use under any lighting condition.

The WPR-48 can communicate via RF or IR with any Crestron control system! Compatible with CNRFGWA, CNRFGWA-418, and MC2W 1-way RF gateways; the CNXRMIRD IR receiver or C2N-IRGW IR gateway, and the CN-TVAV control module, the WPR-48 fits easily into any control system design. Long-life lithium ion rechargeable batteries afford several weeks of wireless use on a single charge, and are easily recharged when the remote is placed in the docking station (included).

- ▶ Water handheld remote
- Configurable for 9, 18, 27, or 48 pushbutton functions
- Multi-function buttons allow single-press, 2-postion or 3-postion rocker action
- Customizable labeling
- Electroluminescent backlighting
- ▶ 1-way RF or IR wireless communication
- Long-life lithium ion rechargeable batteries
- Includes docking station/charger and lanyard

SPECIFICATIONS

Buttons

Function: (9) 3-position programmable function buttons
Shift: The bottom function button may be used as a left/right shift button, selecting between 2 "pages" of commands
Configurations: 9 functions, 18 functions (9x left/right), 27 functions (9x left/center/right), or 48 functions (2 pages of 8x left/ center/right)

Backlight

(2) Electroluminescent backlit label strips

Wireless

RF Transmitter: 434 or 418 MHz 1-way RF Bandwidth: ±100KHz RF Range: Up to 300 feet (typical) CNRFGWA, CNRFGWA-418, or MC2W RF Gateway required

IR Transmitter: 38 or 455 kHz IR Formats: RC5 (38 kHz), Crestron (455 kHz) IR Range: Up to 15 feet (typical) CNXRMIRD IR Receiver, C2N-IRGW IR Gateway, or CN-TVAV required

LED Indicators

T: (red) Indicates WPR-48 is transmitting
B: (red) Indicates battery is charging
 / ▼ : (2x red) Indicates 'page' selection in 48-function mode

Battery

Type: Li-lon, 3.6 Volts DC, 750mah Usage per Charge: Up to 5 hours (backlight on continuous), up to 4 weeks (typical home use) Charging Time: 1.5 hours (maximum)

Power Requirements

Docking Station/Charger (WPR-DS included): 6 Watts (0.5 Amps) @ 12 Volts DC Power Supply (PW-1210RU included): 120 Volts AC @ 60 Hz

Enclosure

High impact rubberized blue plastic, watertight (at a depth of 10 feet for 10 minutes), includes optional lanyard and "foot" for angled tabletop operation

Environmental

Temperature: 32° to 140° F (0° to 60° C) Humidity: 0% to 100% RH (non condensing)

Dimensions

Height: 5.26 in (13.36 cm) **Width:** 2.79 in (7.09 cm) **Depth:** 1.16 in (2.95 cm) with lanyard foot installed; 0.82 in (2.08 cm) with blank foot

Weight

4.8 oz (0.14 kg)



- Handheld Remotes

Waterproof Handheld Remote WPR-48

INTERNATIONAL VERSION (230 VAC)

WPRI-48

All the features and specifications of the WPR-48 except:

Power Requirements

WPRI-DS Docking Station/Charger (included): 6 Watts (0.5 Amps) @ 12 Volts DC Power Supply (PW-1210RU included): 0.3 Amps @ 100-240 Volts AC, 50Hz

INCLUDED ACCESSORIES

(See individual product specifications for complete information)

WPR(I)-DS Docking Station/Charger

AVAILABLE ACCESSORIES

- CNRFGWA or CNRFGWA-418
 1-way RF Gateway
- C2N-IRGW-1G IR Gateway, Wall Mount
- MC2W
 Integrated Wireless
 Control System
- C2N-IRGW-F IR Gateway, Flush Mount
- CNXRMIRD
 IR Receiver
- CN-TVAV Cresnet TV/AV Controller
- ST-PK Programming Cable Kit

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Handheld Remotes

CNRFHT RF Wireless Handheld Remotes



The CNRFHT wireless handheld remotes communicate via 1-way RF with any Crestron control system using the CNRFGWA RF gateway, or the RF gateway built into the MC2W wireless control system. Two models are available, the CNRFHT-30A and the CNRFHT-15A.

The CNRFHT-30A employs a variable layout of up to 30 pushbuttons while the CNRFHT-15A is limited to 15 pushbuttons. Both models provide 30 positions, any of which may be populated with a pushbutton or left blank. Button caps are available in a variety of colors and sizes, allowing for intermixing of different colored buttons on a single remote. Custom engraving of the front panel overlay is included. The overlay is replaceable, and is available in a variety of colors.

AVAILABLE MODELS

CNRFHT-30A 30-Button RF Wireless Handheld Remote

CNRFHT-15A 15-Button RF Wireless Handheld Remote

SPECIFICATIONS

Buttons

(1-30 or 1-15 variable) momentary keypad pushbuttons, programmable

Wireless

RF Transmitter: 433.92 (434) MHz 1-way RF Range: Up to 300 feet CNRFGWA or MC2W RF Gateway required

LED Indicators

(1) Red LED indicates unit is transmitting while any button is pressed

Battery

One (1) disposable 9 Volt alkaline battery (included)

Enclosure

Molded black plastic, handheld

Environmental

Temperature: 50° to 113° F (10° to 45° C) Humidity: 10% to 90% RH (non-condensing)

Dimensions

Height: 6.50 in (16.5 cm) Width: 2.75 in (6.85 cm) Depth: 0.80 in (2.03 cm)

Weight

0.27 lb (0.12 kg) without batteries

AVAILABLE COLORS

Buttons: Black, White, Red, Light Grey, Yellow, or Green Faceplate: Black, White, Gold, Silver, Grey, Blue, or Green

AVAILABLE ACCESSORIES

CNRFGWA
 1-way RF Gateway

MC2W Integrated Wireless Control System



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WiFi Touchpanel & Handheld Remote Accessories

DOCKING STATIONS & BATTERY PACKS

TPMC-8X-DS Docking Station for TPMC-8X

The TPMC-8X-DS is an optional desktop docking station and battery charger for the TPMC-8X lsys i/O[™] WiFi Touchpanel. Its design allows the touchpanel to be operated upright at a 37 degree angle while charging. A 10/100 Ethernet port enables wired LAN connectivity for the touchpanel while docked, and two additional USB ports are included to support a wired mouse and keyboard (not included). Power to the docking station is provided by the DC power pack furnished with the TPMC-8X.

SPECIFICATIONS

Connectors

+12V: DC Power input jack (power supply furnished with touchpanel)

LAN: (1) 8-wire RJ45 with 2 LED indicators 10BaseT/100BaseTX Ethernet port Green LED indicates link status Yellow LED indicates Ethernet activity

USB: (2) USB Type A female USB 2.0 ports for keyboard/mouse

Power Requirements

12 Volts DC

Environmental

Temperature: 32° to 104°F (0° to 40°C) **Humidity:** 10% to 90% RH (non-condensing)

Enclosure

Injection-molded plastic

Dimensions

Height: 6.46 in (16.40 cm) **Width:** 7.78 in (19.75 cm) **Depth:** 2.95 in (7.49 cm)

Weight

1.3 lb (0.59 kg)





Rear View





WiFi Touchpanel & Handheld Remote Accessories

DOCKING STATIONS & BATTERY PACKS

TPMC-8X-DSW Wall Mount Docking Station for TPMC-8X

The TPMC-8X-DSW Wall Mount Docking Station facilitates charging of the TPMC-8X WiFi Touchpanel while simultaneously enabling fully wired touchpanel operation.

Secure Wall Mount Dock—While docked, the touchpanel is secured in place by an electronic latch. The touch-panel lays flush within the docking station providing a refined appearance while prohibiting prying fingers or an accidental bump from dislodging it. When released, the mechanism gently extends the touchpanel outward, ready to be disengaged for wireless use.

For secure applications, a choice of fingerprint recognition or pass code entry on the touchpanel can be used to prevent unauthorized removal. All functions of the docking station can also be controlled programmatically from the control system via Ethernet, and through Crestron's RoomView® Remote Management Software. A hardware key is provided to release the touchpanel from the docking station in the case of a power failure.

High-Speed Connectivity—On the rear of the TPMC-8X-DSW, a 10/100 Ethernet port provides for direct connection to a wired LAN, allowing fully wired operation of the touchpanel while docked. Two (2) USB ports are included to support a wired mouse and keyboard (not included). A professional balanced stereo audio output provides a means of amplifying or redistributing streaming audio from the touchpanel's embedded media player applications.

Multi-Battery Charger—The TPMC-8X-DSW not only charges the touchpanel's internal battery, it can charge an optional external battery pack as well. In fact, it can charge one external battery pack attached to the touchpanel while simultaneously charging a second spare external battery pack placed in its own charging slot within the docking bay. The spare battery pack can even be left in place to charge while the touchpanel is removed, keeping one battery pack charging at all times.

Note: TPMC-8X WiFi Touchpanel and all battery packs sold separately. USB mouse/keyboard not included.

SPECIFICATIONS

Ethernet

10/100BaseT, auto-negotiating, full/half duplex, static IP or DHCP/DNS



(touchpanel not included)

Connectors

24VDC: (1) 2-pin 7.62mm detachable terminal block 24 Volt DC power input Wire Size: 12 AWG maximum

LAN: (1) 8-wire RJ45 with 2 LED indicators 10BaseT/100BaseTX Ethernet port Green LED indicates link status Yellow LED indicates Ethernet activity

USB: (2) USB Type A female USB 2.0 ports for keyboard/mouse

AUDIO OUT: (1) 5-pin 3.5mm detachable terminal block Balanced/unbalanced stereo line-level audio output

Buttons

POWER/SUSPEND: (1) Pushbutton, activates the POWER/SUSPEND function on the TPMC-8X touchpanel.

Power Requirements

50 Watts (2 Amps) @ 24 Volts DC May be powered by Cresnet or dedicated power supply PW-2420RU or larger power supply sold separately

Environmental

Temperature: 32° to 104°F (0° to 40°C) Humidity: 10% to 90% RH (non-condensing)

Enclosure

Chassis: Metal, flush-mountable Faceplate: Injection-molded plastic, color-matched to touchpanel

Back Box (sold separately): Steel electrical box with conduit knockouts, for pre-construction drywall installation

WiFi Touchpanel & Handheld Remote Accessories

DOCKING STATIONS & BATTERY PACKS

TPMC-8X-BTP Battery Pack for TPMC-8X

The TPMC-8X-BTP is a replacement Lithium Ion rechargeable battery pack for the TPMC-8X WiFi Touchpanel. One (1) TPMC-8X-BTP is included with each TPMC-8X. Installation of the TPMC-8X-BTP battery pack requires tools and should be performed by a qualified technician.

TPMC-8X-BTPE External Battery Pack for TPMC-8X

The TPMC-8X-BTPE is an external "booster" battery pack for the TPMC-8X WiFi Touchpanel designed to extend the duration of wireless operation between charges. It clips neatly to the rear of the touchpanel without tools, adding 0.75 inch depth and non-slip rubber feet resulting in a fixed tilt angle of 7 degrees.



WiFi Touchpanel & Handheld Remote Accessories

DOCKING STATIONS & BATTERY PACKS

TPMC-4X-DS Docking Station for TPMC-4X

The TPMC-4X-DS is a docking station and battery charger designed specifically for use with the TPMC-4X lsys i/O[™] Handheld WiFi Touchpanel. One (1) TPMC-4X-DS is included with each TPMC-4X. The TPMC-4X-DS is not sold separately.

SPECIFICATIONS

Power Requirements

Docking Station/Charger: 0.6 Amps @ 5 Volts DC Power Supply (included): 0.3 Amps @ 100-240 Volts AC, 60Hz

Environmental

Temperature: 30° to 113°F (-5° to 45°C) Humidity: 10% to 90% RH (non-condensing)

Enclosure

High impact injection-molded plastic

Dimensions

Height: 2.12 in (5.37 cm) Width: 3.63 in (9.20 cm) Depth: 6.27 in (15.93 cm) Total height of touchpanel and docking station when docked is ~3.25 in (~8.25 cm)

INTERNATIONAL VERSION (50 Hz)

TPMCI-4X-DS

All the features and specifications of the TPMC-4X-DS except:

Power Requirements

Docking Station/Charger (included): 0.6 Amps @ 5 Volts DC Power Supply (included): 0.3 Amps @ 100-240 Volts AC, 50Hz



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WiFi Touchpanel & Handheld Remote Accessories

DOCKING STATIONS & BATTERY PACKS

MT-1000C-DS Docking Station for MT-1000C

The MT-1000C-DS is a docking station and battery charger designed specifically for use with the MT-1000C MiniTouch Wireless Handheld Touchpanel. One (1) MT-1000C-DS is included with each MT-1000C.

SPECIFICATIONS

Connectors

DC 5V: (1) DC power jack (power supply included)

LED Indicators

POWER: (1) Red LED indicates power to unit **STATUS:** (1) Dual-color LED – red when charging, blue when fully charged

Power Requirements

Docking Station/Charger: 2 Amps @ 5 Volts DC Power Supply (included): 0.3 Amps @ 100-250 Volts AC 50/60Hz

Environmental

Temperature: 41° to 104°F (5° to 40°C) Humidity: 10% to 90% RH (non-condensing)

Enclosure

High impact black injection-molded case

Dimensions

Height: 1.21 in (3.07 cm) Width: 5.16 in (13.09 cm) Depth: 5.25 in (13.33 cm)

Weight

5.6 oz (0.16 kg)

MT-1000C-BTP Battery Pack for MT-1000C

The MT-1000C-BTP is a Lithium Ion rechargeable battery pack for the MT-1000C MiniTouch Wireless Handheld Touchpanel. The battery pack is easily installed and removed from the bottom panel of the touchpanel. One (1) MT-1000C-BTP is included with each MT-1000C.



WiFi Touchpanel & Handheld Remote Accessories

DOCKING STATIONS & BATTERY PACKS

WPR-DS Docking Station for WPR-48

The WPR-DS is a docking station and battery charger designed specifically for use with the WPR-48 Waterproof Handheld Remote. One (1) WPR-DS is included with each WPR-48.

SPECIFICATIONS

Connectors

PC: (1) 6-pin RJ-11 female RS-232 serial connection for PC configuration

12VDC: (1) 2.5mm barrel DC power jack 12 Volt DC power jack (power supply included)

LED Indicators

Power (Logo): (green) Indicates 12 Volts DC from power supply CHG: (red) Indicates battery charging status RDY: (green) Indicates battery is fully charged

Power Requirements

Docking Station/Charger: 6 Watts (0.5 Amps) @ 12 Volts DC Power Supply (PW-1205 included): 120 Volts AC @ 60 Hz

Environmental

Temperature: 32° to 140° F (0° to 60° C) Humidity: 0% to 100% RH (non condensing)

Enclosure

High impact blue injection-molded case

Dimensions

Height: 1.27 in (3.23 cm) Width: 3.29 in (8.36 cm) Depth: 5.08 in (12.90 cm)

Weight

8.3 oz (0.23 kg)

INTERNATIONAL VERSION (230 VAC)

WPRI-DS

All the features and specifications of the WPR-DS except:

Power Requirements

Docking Station/Charger: 6 Watts (0.5 Amps) @ 12 Volts DC Power Supply (PW-1210RU included): 230 Volts AC @ 50 Hz





Handheld Remote Accessories

RF GATEWAYS

CNRFGWA 1-Way RF Gateways

The CNRFGWA is an RF receiver that allows Crestron 1-way RF wireless touchpanels and handheld remotes to communicate with the control system via the Cresnet network. Each CNRFGWA affords a range of approximately 300 feet. Extended range can be achieved by distributing multiple gateways throughout a structure. Each gateway behaves as a Cresnet slave device requiring just one Cresnet wire to each gateway location.

Two CNRFGWA models are available, the CNRFGWA and the CNRFGWA-418. The CNRFGWA is compatible with Crestron devices that transmit 1-way RF at 434 MHz only. For 418 MHz 1-way devices, use the CNRFGWA-418. For installations employing both 434 MHz and 418 MHz devices, both gateway models must be installed.

Note: CNRFGWA gateways are only compatible with Crestron 1-way RF devices.

AVAILABLE MODELS

CNRFGWA 434 MHz 1-Way RF Gateway CNRFGWA-418 418 MHz 1-Way RF Gateway

SPECIFICATIONS

Wireless

RF Receiver: 433.92 (434) or 418 MHz 1-way RF, crystal locked Range: Up to 300 feet Maximum 15 touchpanels or 240 handheld remotes per gateway; Minimum distance allowed between gateways is 50 feet

Connectors

NET: (1) 4-pin 5mm detachable terminal block Cresnet slave port, connects to Cresnet control network

ANTENNA: (1) BNC female Impedance: 50 ohms (antenna included)

Controls

ID CODE: (2) Rotary DIP Switches Used for setting the unit's Cresnet ID



LED Indicators

SIGNAL: (red) Indicates reception of a valid RF signal **I.D. SELECT:** (red) Indicates communication established with control system

NET PWR: (green) Indicates 24 Volts DC power supplied from Cresnet control network

Power Requirements

Cresnet Power Usage: 3 Watts (0.125 Amps @ 24 Volts DC)

Environmental

Temperature: 41° to 113°F (5° to 45°C) Humidity: 10% to 90% RH (non-condensing)

Enclosure

Black metal, freestanding

Dimensions

Height: 7.28 in (18.49 cm) without antenna Height: 15.20 in (38.61 cm) with antenna Width: 3.25 in (8.25 cm) Depth: 1.35 in (3.44 cm)

Weight

1.1 lbs (0.5 kg)

AVAILABLE ACCESSORIES

CNANT

High-performance extension antenna



Handheld Remote Accessories

RF GATEWAY ACCESSORIES

CNANT High-Performance Extension Antenna

The CNANT is a high performance indoor antenna designed to surpass the performance of the standard antenna supplied with Crestron 1-way RF gateways such as the CNRFGWA, CNRFGWA-418, and MC2W. Its ground plane design and omni-directional reception pattern afford extended range in all directions. The CNANT may be mounted anywhere indoors within fifteen feet of the gateway, or up to fifty feet using a longer cable (not included).

SPECIFICATIONS

RF Performance

Frequency Range: 400 – 440 MHz Gain: Unity Reception Pattern: Omnidirectional

Connectors

Antenna: (1) BNC female, 15 ft (4.57 m) BNC cable included Impedance: 50 ohms

Dimensions

Height: 21.5 in (54.61 cm) **Width:** 13.5 in (34.29 cm) **Depth:** 13.5 in (34.29 cm)

Weight

0.51 lb (1.12 kg) without cable





Handheld Remote Accessories

IR GATEWAYS

C2N-IRGW-1G IR Gateway, Wall Mount

The C2N-IRGW-IG IR Gateway is a 1-way infrared receiver for Crestron IR wireless handheld remotes and touchpanels. It is also compatible with any third-party IR remote utilizing the RC5 command set.

The C2N-IRGW-1G is designed to fit in a 1-gang electrical box using a Decora[®] style faceplate (not included). Its entire visible face consists of a smoked plastic lens providing a neutral appearance suitable for use with any color scheme. The C2N-IRGW-1G is a Cresnet device compatible with any 2-Series control system.

SPECIFICATIONS

IR Wireless

IR Frequency 36 to 38 kHz IR Formats: Crestron format, RC5 Range: Up to 50 ft line of sight (typical), dependent upon angle, obstructions, IR interference, and IR remote signal strength

Connectors

NET: 4-pin 3.5mm detachable terminal block Cresnet slave port, connects to Cresnet control network

LED Indicators

(1 red) Indicates IR signal reception, Cresnet network communication, and setup/update functions

Controls

(1) Recessed miniature pushbutton for setup

Power Requirements

Cresnet Power Usage: 1 Watt (0.042 Amps @ 24 Volts DC)

Environmental

Temperature: 41° to 104°F (5° to 40°C) Humidity: 10% to 90% RH (non-condensing)

Enclosure

Injection-molded plastic with smoked plastic face, 1-gang mountable in an electrical box using Decora® faceplate (not included)

Dimensions (Without Faceplate)

Height: 4.13 in (10.48 cm) **Width:** 1.75 in (4.45 cm) **Depth:** 1.37 in (3.45 cm)

Weight

2.4 oz (68.0 g)





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Handheld Remote Accessories

IR GATEWAYS

C2N-IRGW-F IR Gateway, Flush Mount

The C2N-IRGW-F IR Gateway is a 1-way infrared receiver for Crestron IR wireless handheld remotes and touchpanels. It is also compatible with any third-party IR remote utilizing the RC5 command set.

The C2N-IRGW-F is designed to install flush into any drywall or ceiling tile surface. Its visible face consists of a smoked plastic lens measuring 1-1/2 inch diameter. The C2N-IRGW-F is a Cresnet device compatible with any 2-Series control system.

SPECIFICATIONS

IR Wireless

IR Frequency: 36 to 38 kHz IR Formats: Crestron format, RC5 Range: Up to 50 ft line of sight (typical), dependent upon angle, obstructions, IR interference, and IR remote signal strength

Connections

~10 inch (~25 cm) 4-wire pigtail Connects to Cresnet control network

LED Indicators

(1 red) Indicates IR signal reception, Cresnet network communication, and setup/update functions

Controls

(1) Recessed miniature pushbutton for setup

Power Requirements

Cresnet Power Usage: 1 Watt (0.04 Amps @ 24 Volts DC)

Environmental

Temperature: 41° to 104°F (5° to 40°C) Humidity: 10% to 90% RH (non-condensing)

Enclosure

Cylindrical plastic, drywall or ceiling tile mountable in a 1 inch (2.54 cm) diameter round hole

Dimensions

Diameter: 1.50 in (3.81 cm) **Depth:** 2.19 in (5.54 cm)

Weight

0.9 oz (25.52 g







Handheld Remote Accessories

IR RECEIVER

CNXRMIRD IR Receiver

The CNXRMIRD is an optional infrared (IR) receiver designed for use with a control system or room solution box that includes an IR input port. The CNXRMIRD affords cost-effective control from any Crestron or third-party universal IR remote transmitting RC5 commands at 38 kHz.

SPECIFICATIONS

IR Wireless

IR Frequency: 38 kHz IR Format: RC5 Range: Up to 50 ft line of sight (typical), dependent upon angle, obstructions, IR interference, and IR remote signal strength

Connectors

 (1) Attached 6 ft (1.83 m) long cable with 3.5 mm mini phone plug (male) for connection to a Crestron IR IN port, extendable up to 500 feet;
 (Not compatible with ST-SPL or ST-MB)

Environmental

Temperature: 41° to 104°F (5° to 40°C) Humidity: 10% to 90% RH (non-condensing)

Enclosure

Black plastic cube

Dimensions

Height: 1.0 in (2.54 cm) Width: 1.0 in (2.54 cm) Depth: 1.0 in (2.54 cm)

Weight

2.4 oz (68.0 g) without cable





Notes

CRESTRON